

Headquarters Air Combat Command

*Basic Expeditionary
Airfield Resources (BEAR)
Mission Brief*



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HQ ACC/A4RX
2 Nov 11**

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UNCLASSIFIED

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Overview

- Organization
- BEAR Today
- Promo Tape
- Major Initiatives
- Modernization
- Challenges
- Over the Horizon





General Norton Schwartz

Logistics Officer Association
National Conference
Thursday, 14 October 2010



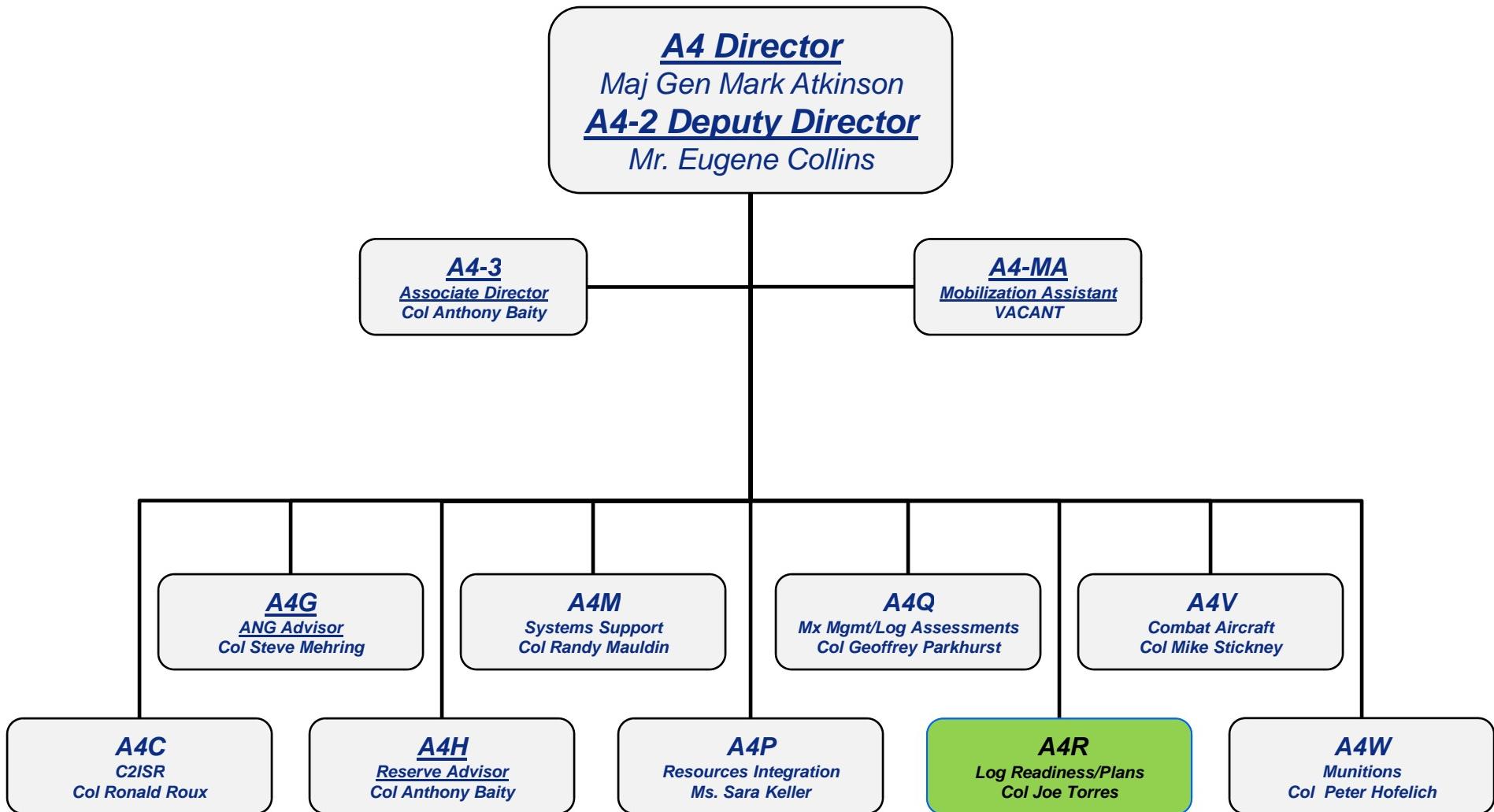
I have said many times before—and I am proud to repeat—that our logistical capabilities are the foundation of our Nation’s military power...

Providing the world’s most advanced logistical support to our warfighters, particularly in remote areas, is a daunting challenge in itself; but, we also face the challenge of preparing for the future by modernizing and recapitalizing our aging fleet. It is especially difficult to do both in today’s extremely constrained fiscal environment of mounting national deficits and flattening defense budgets.

We therefore must achieve greater efficiencies by shifting as much from “tail” to “tooth” as possible, to maintain our operational advantage while contending with decreased purchasing power.

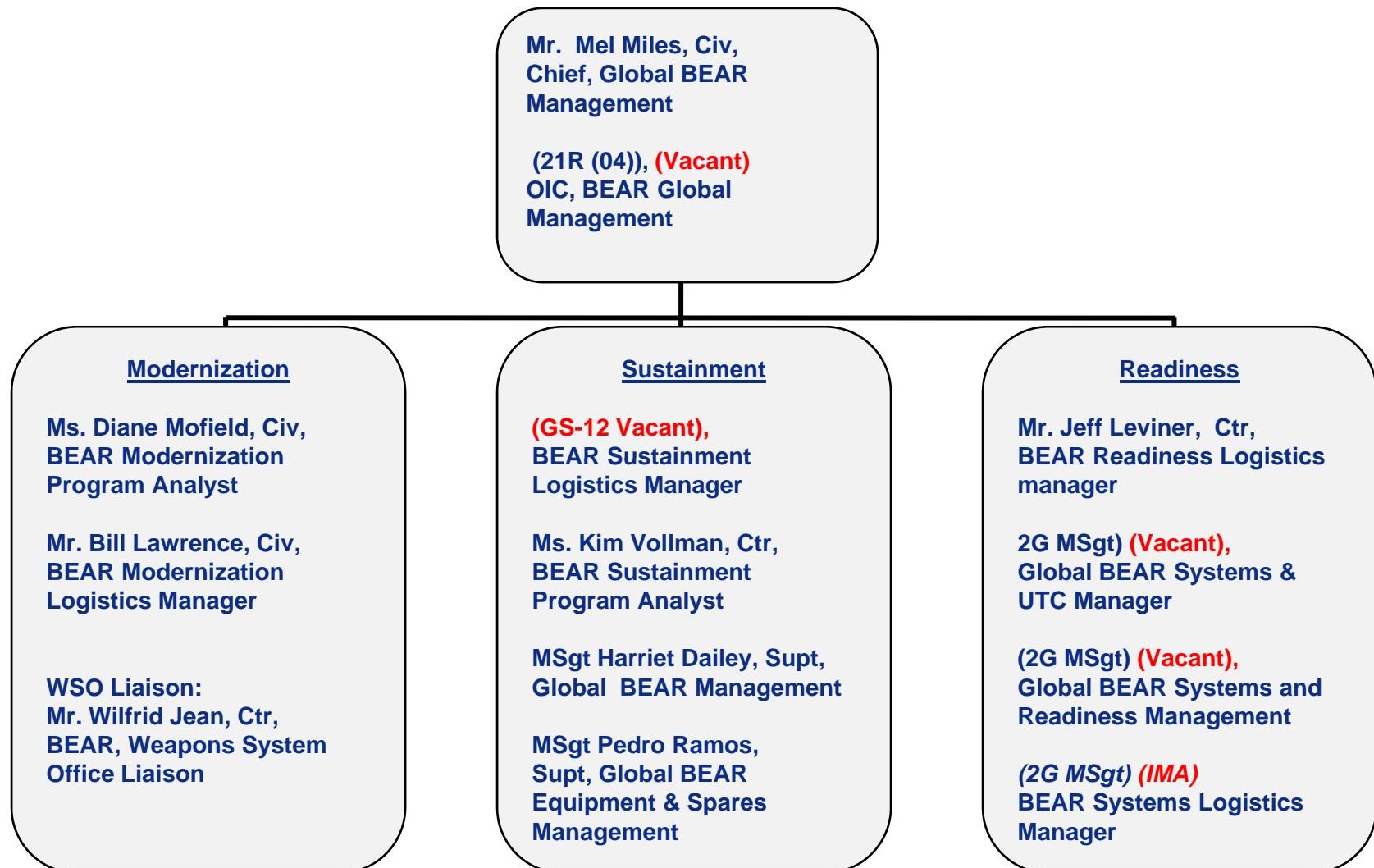


ACC/A4 Organizational Chart





BEAR Section





Program Description

- “Key AEF Enabler” - supports ACS beddown of deployed aircraft and personnel at austere locations where little or no infrastructure exists
- Unique AF capability w/program managed like a weapon system (cradle-to-grave)
- Direct mission support of AFFOR with infrastructure, flightline, and personnel teams (structure erection)
- Authorizations based on Strategic Planning Guidance
 - \$1.6B auth assets to support:
 - 2,239 aircraft
 - 134,364 personnel
 - 10 austere locations & 54 semi - austere locations



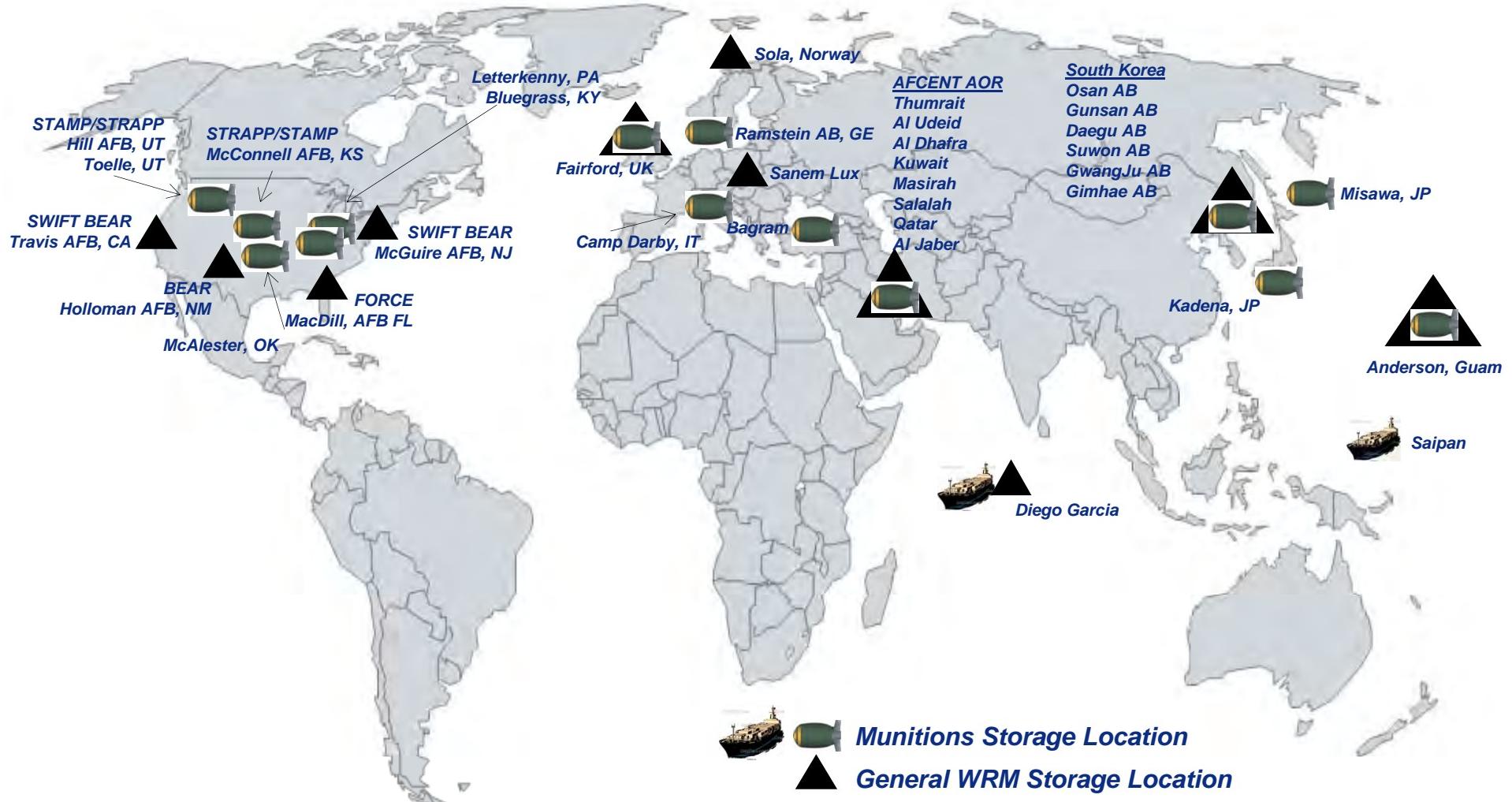
BEAR

(Unique Governing Structure/Community)

<p><u>Key Air Force Players</u></p> <p>HAF A4, A4/7Z, 49MMG, AFCESA, WSO, ACC A7, ACC A8, Storing MAJCOMs (AFCENT, PACAF, USAFE, AMC) Air components: USAFCENT for USCENTCOM; PACAF for USPACOM; AMC for USTRANSCOM; and USAFE for USEUCOM. Each perform storing command functions and have BEAR Systems assigned. ACC is the primary in CONUS, providing BEAR systems as tasked</p>	<p><u>General Officer Steering Group (GOSG)</u></p> <p>GOSG is chaired by AF/A4 and this is the Air Force's Office of Primary Responsibility for BEAR management, policy, and procedures. The BEAR GOSG is the Air Force's executive body charged with executive level responsibility for BEAR. The GOSG is responsible for the oversight and strategic direction of the BEAR Program.</p>
<p><u>Systems Readiness Board (BSRB)</u></p> <p>ACC/A4X chairs the BSRB. The BSRB is the O-6 level management group that directs and oversees the AF BEAR Program. The BSRB will meet at least annually, generally in May (or within three months of BIPT). If deemed necessary, the BSRB chair may call for special out-of-cycle meetings to resolve or discuss</p>	<p><u>Integrated Process Team (BIPT)</u></p> <p>Chaired by A4RX. BIPT integrates and coordinates day-to-day BEAR management activities for HAF. It is the primary group for coordinating activities of functional communities in the multi-functional BEAR management process. The BIPT is the initial entry or gatekeeper for issues, ideas, concerns, etc., concerning all aspects of the BEAR program. BIPT prioritizes issues and presents issues requiring action to the BSRB. The BSRB will meet at least annually, generally in Feb</p>



Storage Locations





Capabilities

- BEAR supports limited and “bare base” operations defined as a location with a runway/taxiway, adequate parking space for aircraft, and a source of potable water
- Consists of a variety of systems to support CAF and MAF operations:
 - Billeting
 - Messing
 - Hygiene
 - Power
 - Water
 - Environmental
 - Aircraft Shelters
 - Flightline Equipment
 - Industrial Equipment





BEAR Assets



Base Power (Generator Sets)



Aircraft Hanger



MAAS



Self Help Laundry



Civil Engineers Erecting shelters



ISO containers (BICON, TRICON 20 FT)



Shower Shave



ESC MAINT Shop



FDECU



BEAR Assets



Mobile Electric Power (MEP) 806



Mobile Electric Power (MEP) 12



Mobile Electric Power (MEP) 805



Polartherm 130 K Heater



Environmental Control Unit (ECU) -9



Expeditionary Airfield Lighting System (EALS)



Single Pallet Expeditionary Kitchen (SPEK)



Reverse Osmosis Water Purification Unit (ROWPU)



25K Gal Waste Tank with Aeration Unit



Major Taskings

OPERATION	COMMAND	TASKING	QTY
OEF (Afghanistan)	AFCENT	HF Housekeeping Set (1100)	14
OEF (Afghanistan)	ACC	550 Initial Housekeeping Set	3
OEF (Afghanistan)	ACC	Mep-12 Generator	8 ea
OEF (Afghanistan)	USAFE	550 Initial Housekeeping Set	6
OEF (Afghanistan)	PACAF	Mep-12 Generator	12 ea
OEF (Guantanamo)	ACC	550 Initial Housekeeping Set	1
OEF (Guantanamo)	ACC	550 Follow-on Housekeeping Set	1
Operation Tomodachi	PACAF	ROWPU	15 ea
Operation Tomodachi	PACAF	Low Power Generators (w/cables, etc)	59 ea
Operation Tomodachi	ACC	ROWPU Filters for hazardous waste	60 ea
Odyssey Dawn	USAFE	FDECU	96 ea





Major Taskings (con't)

OPERATION	COMMAND	TASKING	QTY
Operation Odyssey Dawn	USAFE	Low Power Housekeeping	2
Operation Odyssey Dawn	USAFE	SDC	16 ea
Operation Odyssey Dawn	USAFE	Billeting	60 ea
Operation Odyssey Dawn	USAFE	Power Distribution	2
Operation Odyssey Dawn	USAFE	Hygiene	16 ea
Operation Odyssey Dawn	USAFE	Self-Help Laundry	1
Operation Odyssey Dawn	USAFE	Water Extension	1
Operation Odyssey Dawn	USAFE	RALS	3
Operation Odyssey Dawn	USAFE	TF2 Lightcart	16 ea
Operation Odyssey Dawn	USAFE	Tractor/25ft Trailer	1
Operation Odyssey Dawn	USAFE	6 pax Truck	1
Operation Odyssey Dawn	USAFE	Waste Water Truck	1
Operation Odyssey Dawn	USAFE	13K Forklift	1





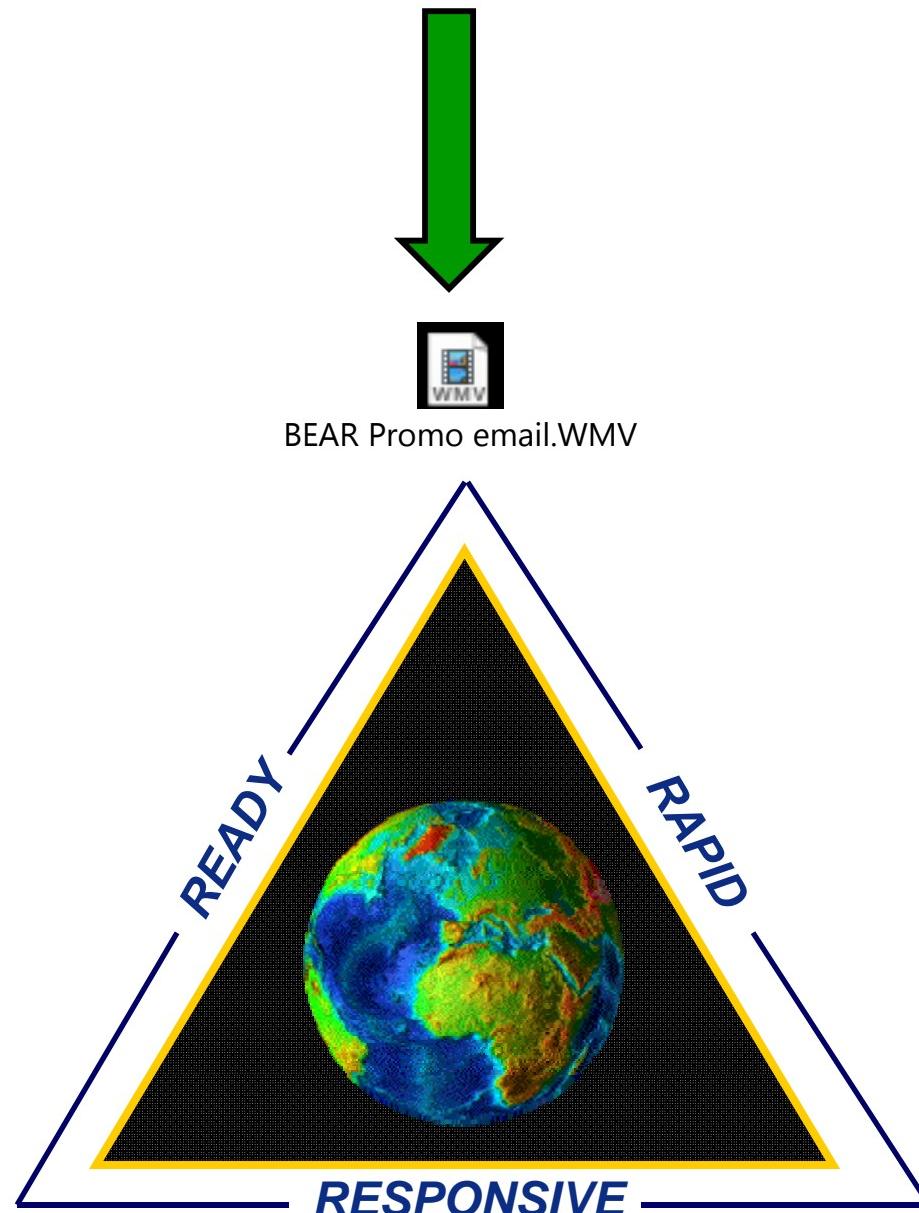
Major Taskings (con't)

OPERATION	COMMAND	TASKING	QTY
Classified Operation	Classified	Low Power Housekeeping	10 ea
Classified Operation	Classified	ADR-300	12 ea
Classified Operation	Classified	AM2 Matting	16 ea
Classified Operation	Classified	Power Distribution	2
Classified Operation	Classified	Kitchen	1
Classified Operation	Classified	Self-Help Laundry	2
Classified Operation	Classified	LAMS	4
Classified Operation	Classified	Hygiene	4
Classified Operation	Classified	TF2 Lightcart	20 ea





BEAR Information





Major Initiatives

- BEAR Global Management
- Joint Initiatives
 - Promote commonality
 - Leverage Acquisition
- Modernization
 - Efficiencies
 - New assets





Major Initiatives (Joint)

- **Joint Expeditionary Basing-Working Group (JEB-WG)**
 - Examine engineering standards and opportunities to capitalize on expeditionary basing equipment commonality
 - Over 20 Items Identified for Joint Acquisition
 - JCTD and Micro Grid Initiatives
- **Operational Logistics Efficiencies**
 - Joint Base Camp Configuration



"Achieving Commonality & Interoperability Through Joint Solutions"



- ACC/A4RX Modernization Plan - Modernization and ways to mitigate fossil fuel use & promote Renewable Energy source
 - Aligned BEAR w/AF energy goals, objectives, metrics (capitalize on efficiencies)
- AF Energy Plan 2010 - Change how we think and act
- Goals - The Air Force Energy Plan is built upon three pillars:
 - Reduce Demand
 - Increase Supply
 - Culture Change
- Objectives - Increase Alternative Fuel use, Renewable Energy, Utilize Public-Private Partners, Increase Conservation & Improve efficiency

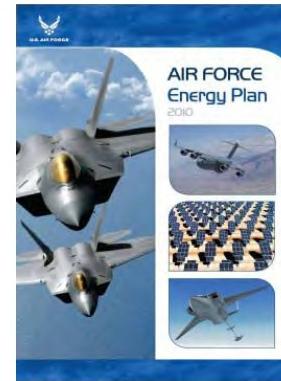
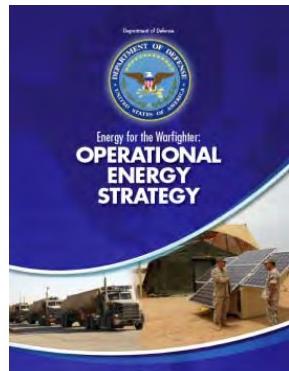




Major Initiatives (Energy initiatives)

Air Force Energy Plan Aligns with the Operational Energy Strategy

OSD OPERATIONAL
ENERGY STRATEGY
GOALS



MORE FIGHT, LESS FUEL:
Reduce the demand for energy
in military operations

1

REDUCE DEMAND:
Reduce aviation, ground operations,
and installation energy demand

MORE OPTIONS, LESS RISK:
Expand and secure the supply
of energy to military operations

2

INCREASE SUPPLY:
Increasing the amount of energy supplies
available to enhance our nation's energy
security

MORE CAPABILITY, LESS COST:
Build energy security into the future force

3

CULTURE CHANGE:
Increases energy awareness and promote
new ideas and methodologies for operating
more efficiently

AIR FORCE ENERGY PILLARS



Summary BEAR initiatives

Program Title	Program Type	BCA (Y/N)	AF Program Element
1. Basic Expeditionary Airfield Resources (BEAR) Energy Efficient Shelter Systems	Demonstration	Y	X
2. BEAR Installation Load and Power Management System	Development	Y	X
3. Smart Shelter Energy Management System	Development	Y	X
4. BEAR "BLASTEM" BEAR Large Shelter Technology for Energy Management	Development	Y	X



Modernization Efforts

- BEAR Power Unit (BPU)
 - Contract award Feb 2010, Cummins, \$245M
- Expeditionary Airfield Lighting System (EALS)
 - Contract award Aug 2010, Tactical Lighting Systems Inc, \$11M
- Hygiene (Shower/Shave/Latrine) - **RCM In work**
- Flies and Inserts purchased
 - Sent to AI Udied for short term energy initiative; reduces solar load & increases ECU energy efficiency; \$8.6M
- TRICOLD Refrigerated Container System (TRCS)
 - Joint effort with Army; contract awarded Jun 2011; \$7.5M OCO & \$21.7M baseline
- Large Area Maintenance Shelter (LAMS) - **RCM required:**



Modernization Efforts

- AM2 Matting/Large Shelter Flooring – **(RCM required)**
 - Seeking new technology – lighter, stronger
- Pyrolysis Waste Disposal System (PWDS)
 - Seeking COTs Technology
- Water Source, Production, and Distribution Systems
 - Contract award Jan 2010, JGB, \$16.3M
- Water Freeze Protection – **(RCM required)**
- Energy Initiatives – **(RCM required)**
 - Shelter (solar fly/insulation); Environmental Control Unit (ECU); Smart Secondary Distribution Center (SDC); \$29M FY16 & 17
- Small Shelter Flooring
 - Contract award Dec 2010; ADS Inc., \$3.1M
 - Kitchen and mortuary shelters



Challenges

- **Modernization:**
 - Continue to fight for dollars
 - Work with industry for stronger, smarter, lighter, smaller footprint, more energy efficient
 - Continuous improvement
- **Continue Joint Initiatives:**
 - Leverage Joint initiatives and efficiencies
 - Joint Expeditionary Basing-Working Group
 - Engineering standards & equipment commonalities
- **Reconstitution efforts from OIF and OEF**
 - Access, reconstitute and fill holes





Over the Horizon

- **Remain Relevant/Proactive Global Management**
 - Update guidance & doctrine
 - Improve Command & Control
 - Manage & advocate modernization and sustainment funding
- **Continue to refine Requirements Determination Process & Management of assets**
 - Optimum capability at least cost





Questions?

